

FIG. 1A

AATTGGAGGAGTTGTTGTTAGGCCGTCCTCCGGAGACCCGGTCGGGAGGGAG

GAAGGTGGCAAG ATG GTG TTG GAA AGC ACT ATG GTG TGT GTG GAC AAC AGT 101
 Met Val Leu Glu Ser Thr Met Val Cys Val Asp Asn Ser>
 5 10

GAG TAT ATG CGG AAT GGA GAC TTC TTA CCC ACC AGG CTG CAG GCC CAG 149
 Glu Tyr Met Arg Asn Gly Asp Phe Leu Pro Thr Arg Leu Gln Ala Gln>
 15 20 25

CAG GAT GCT GTC AAC ATA GTT TGT CAT TCA AAG ACC CGC AGC AAC CCT 197
 Gln Asp Ala Val Asn Ile Val Cys His Ser Lys Thr Arg Ser Asn Pro>
 30 35 40 45

GAG AAC AAC GTG GGC CTT ATC ACA CTG GCT AAT GAC TGT GAA GTG CTG 245
 Glu Asn Asn Val Gly Leu Ile Thr Leu Ala Asn Asp Cys Glu Val Leu>
 50 55 60

ACC ACA CTC ACC CCA GAC ACT GGC CGT ATC CTG TCC AAG CTA CAT ACT 293
 Thr Thr Leu Thr Pro Asp Thr Gly Arg Ile Leu Ser Lys Leu His Thr>
 65 70 75

GTC CAA CCC AAG GGC AAG ATC ACC TTC TGC ACG GGC ATC CGC GTG GCC 341
 Val Gln Pro Lys Gly Lys Ile Thr Phe Cys Thr Gly Ile Arg Val Ala>
 80 85 90

CAT CTG GCT CTG AAG CAC CGA CAA GGC AAG AAT CAC AAG ATG CGC ATC 389
 His Leu Ala Leu Lys His Arg Gln Gly Lys Asn His Lys Met Arg Ile>
 95 100 105

ATT GCC TTT GTG GGA AGC CCA GTG GAG GAC AAT GAG AAG GAT CTG GTG 437
 Ile Ala Phe Val Gly Ser Pro Val Glu Asp Asn Glu Lys Asp Leu Val>
 110 115 120 125

AAA CTG GCT AAA CGC CTC AAG AAG GAG AAA GTA AAT GTT GAC ATT ATC 485
 Lys Leu Ala Lys Arg Leu Lys Lys Glu Lys Val Asn Val Asp Ile Ile>
 130 135 140

AAT TTT GGG GAA GAG GAG GTG AAC ACA GAA AAG CTG ACA GCC TTT GTA 533
 Asn Phe Gly Glu Glu Glu Val Asn Thr Glu Lys Leu Thr Ala Phe Val>
 145 150 155

AAC ACG TTG AAT GGC AAA GAT GGA ACC GGT TCT CAT CTG GTG ACA GTG 581
 Asn Thr Leu Asn Gly Lys Asp Gly Thr Gly Ser His Leu Val Thr Val>
 160 165 170

CCT CCT GGG CCC AGT TTG GCT GAT GCT CTC ATC AGT TCT CCG ATT TTG 629
 Pro Pro Gly Pro Ser Leu Ala Asp Ala Leu Ile Ser Ser Pro Ile Leu>
 175 180 185

FIG. 1B

GCT GGT GAA GGT GGT GCC ATG CTG GGT CTT GGT GCC AGT GAC TTT GAA 677
 Ala Gly Glu Gly Gly Ala Met Leu Gly Leu Gly Ala Ser Asp Phe Glu>
 190 195 200 205

TTT GGA GTA GAT CCC AGT GCT GAT CCT GAG CTG GCC TTG GCC CTT CGT 725
 Phe Gly Val Asp Pro Ser Ala Asp Pro Glu Leu Ala Leu Ala Leu Arg>
 210 215 220

GTA TCT ATG GAA GAG CAG CGG CAC GCA GGA GGA GGA GCG CGG CGG GCA 773
 Val Ser Met Glu Glu Gln Arg His Ala Gly Gly Gly Ala Arg Arg Ala>
 225 230 235

GCT CGA GCT TCT GCT GCT GAG GCC GGG ATT GCT ACG ACT GGG ACT GAA 821
 Ala Arg Ala Ser Ala Ala Glu Ala Gly Ile Ala Thr Thr Gly Thr Glu>
 240 245 250

GAC TCA GAC GAT GCC CTG CTG AAG ATG ACC ATC AGC CAG CAA GAG TTT 869
 Asp Ser Asp Asp Ala Leu Leu Lys Met Thr Ile Ser Gln Gln Glu Phe>
 255 260 265

GGC CGC ACT GGG CTT CCT GAC CTA AGC AGT ATG ACT GAG GAA GAG CAG 917
 Gly Arg Thr Gly Leu Pro Asp Leu Ser Ser Met Thr Glu Glu Glu Gln>
 270 275 280 285

ATT GCT TAT GCC ATG CAG ATG TCC CTG CAG GGA GCA GAG TTT GGC CAG 965
 Ile Ala Tyr Ala Met Gln Met Ser Leu Gln Gly Ala Glu Phe Gly Gln>
 290 295 300

GCG GAA TCA GCA GAC ATT GAT GCC AGC TCA GCT ATG GAC ACA TCT GAG 1013
 Ala Glu Ser Ala Asp Ile Asp Ala Ser Ser Ala Met Asp Thr Ser Glu>
 305 310 315

CCA GCC AAG GAG GAG GAT GAT TAC GAC GTG ATG CAG GAC CCC GAG TTC 1061
 Pro Ala Lys Glu Glu Asp Asp Tyr Asp Val Met Gln Asp Pro Glu Phe>
 320 325 330

CTT CAG AGT GTC CTA GAG AAC CTC CCA GGT GTG GAT CCC AAC AAT GAA 1109
 Leu Gln Ser Val Leu Glu Asn Leu Pro Gly Val Asp Pro Asn Asn Glu>
 335 340 345

GCC ATT CGA AAT GCT ATG GGC TCC CTG CCT CCC AGG CCA CCA AGG ACG 1157
 Ala Ile Arg Asn Ala Met Gly Ser Leu Pro Pro Arg Pro Pro Arg Thr>
 350 355 360 365

GCA AGA AGG ACA AGA AGG AGG AAG ACA AGA AGT GAG ACT GGA GGG AAA 1205
 Ala Arg Arg Thr Arg Arg Arg Lys Thr Arg Ser Glu Thr Gly Gly Lys>
 370 375 380

GGG TAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGT
 Gly>

TATCTGTAACCAATTACAGCCTAAATAAAGCTTGGCAACTTTTAAAAAAAAAAAAAAAAAAAA

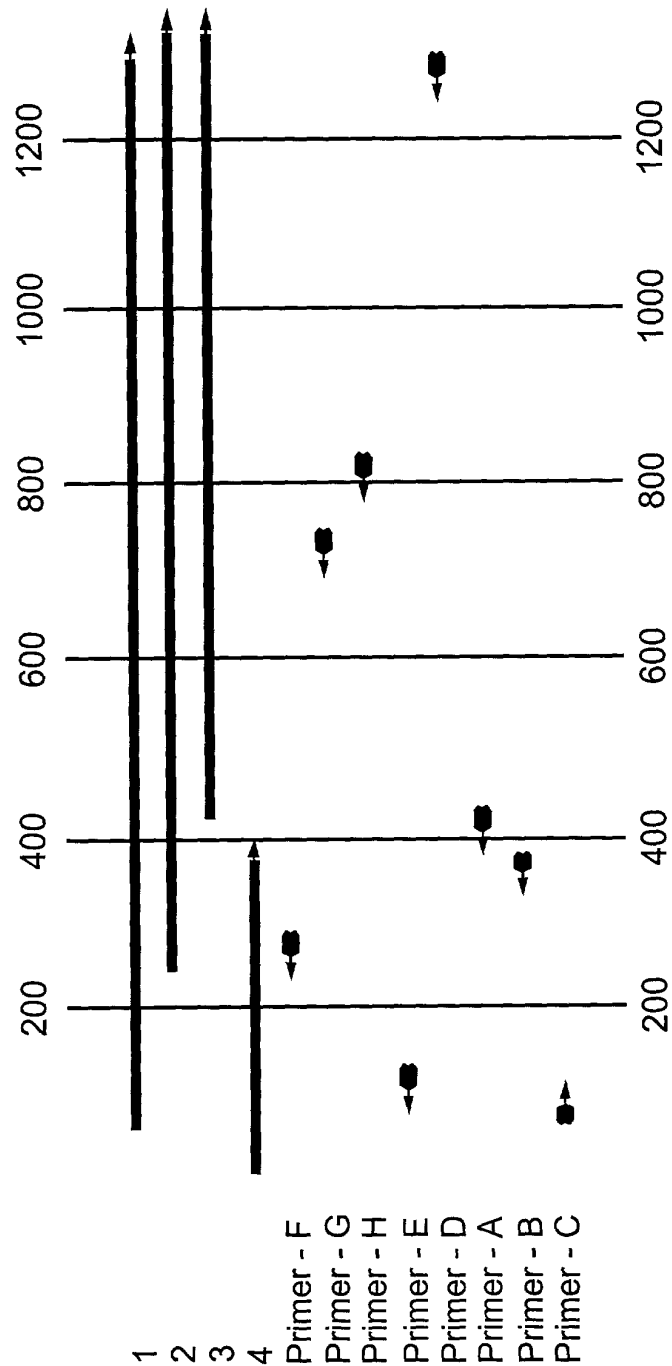


FIG. 1C

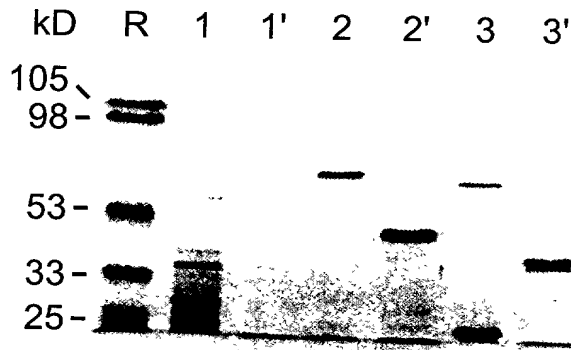


FIG. 2A

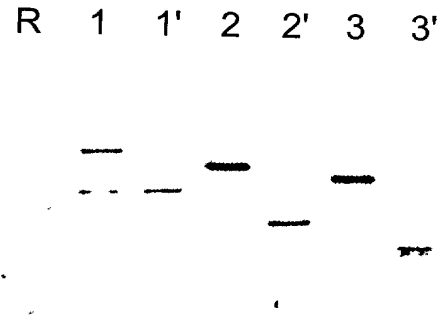


FIG. 2B

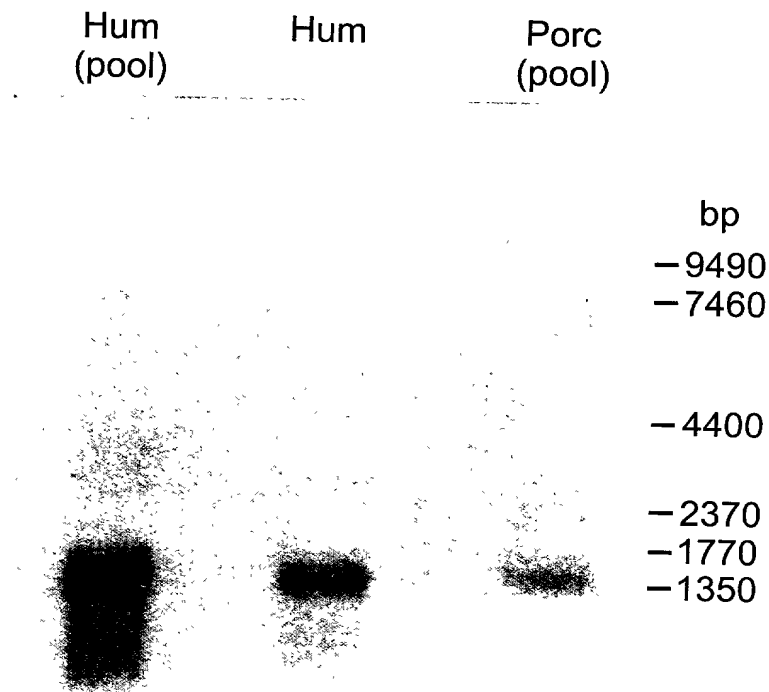


FIG. 4

FIG. 3A

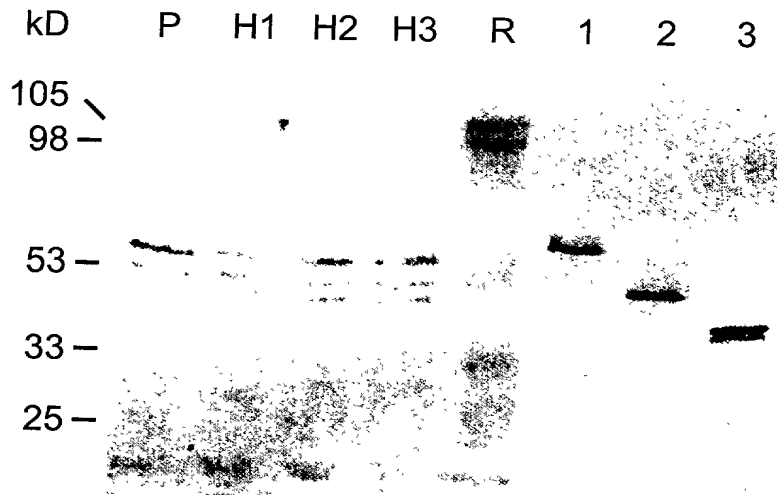
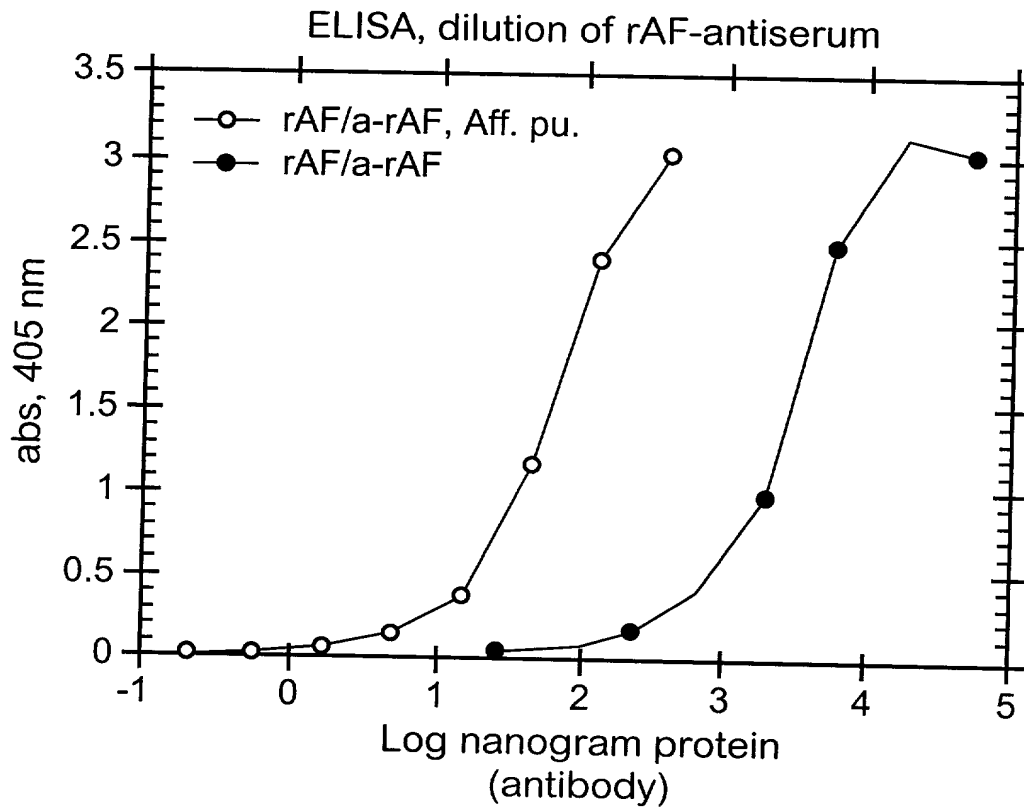


FIG. 3B



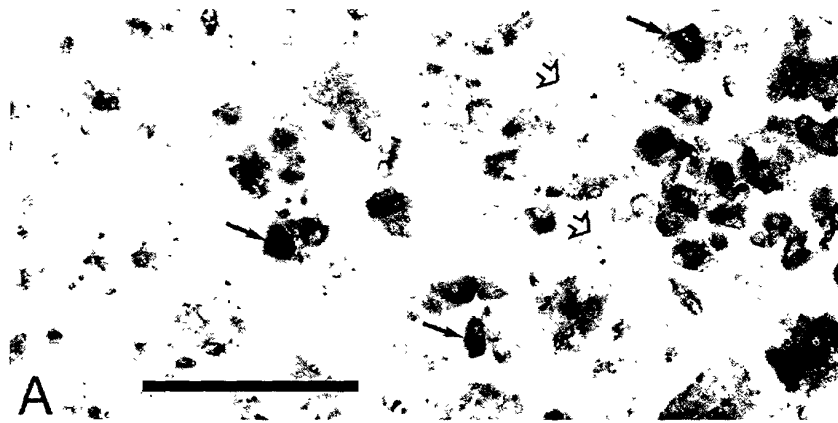


FIG. 5A



FIG. 5B

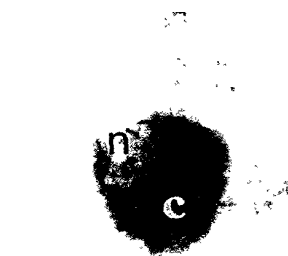


FIG. 5C

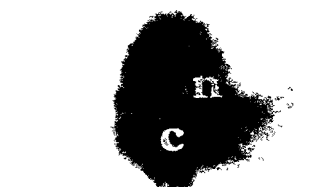


FIG. 5D

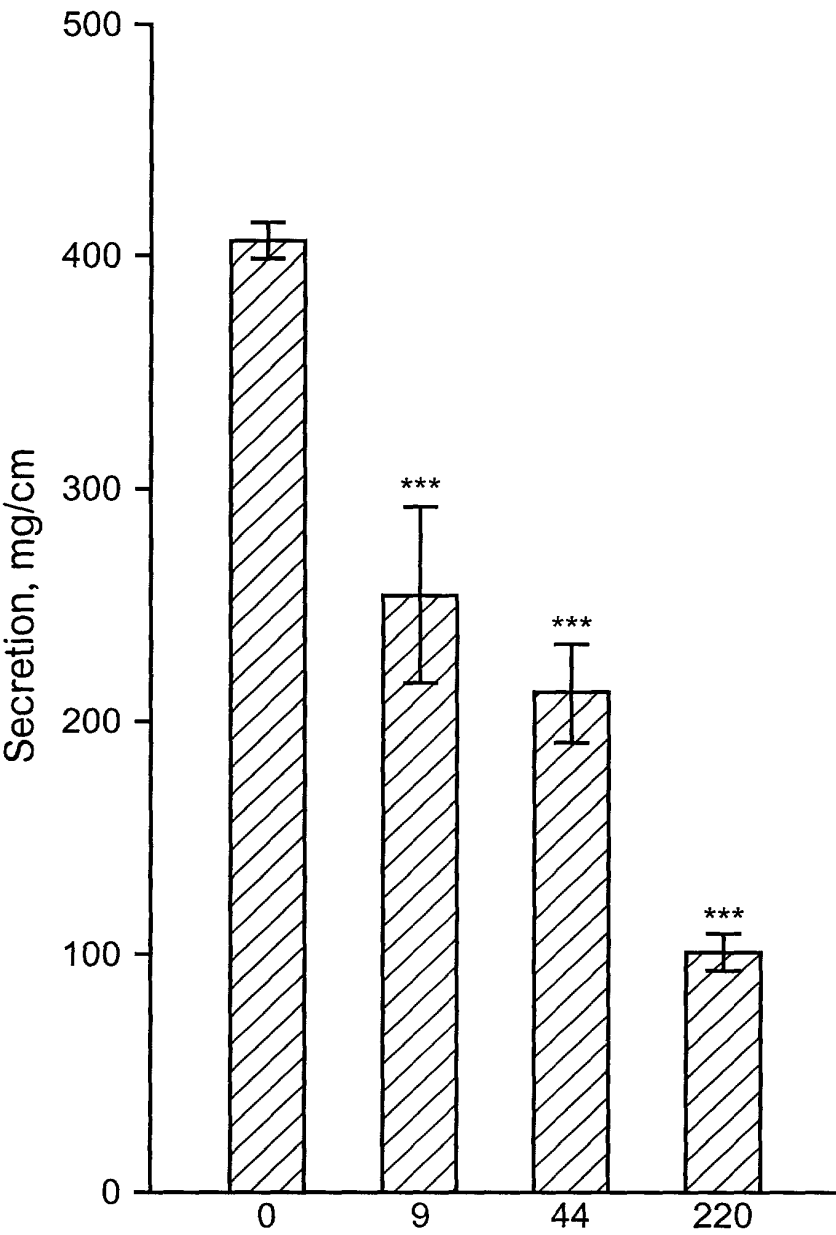


FIG. 6

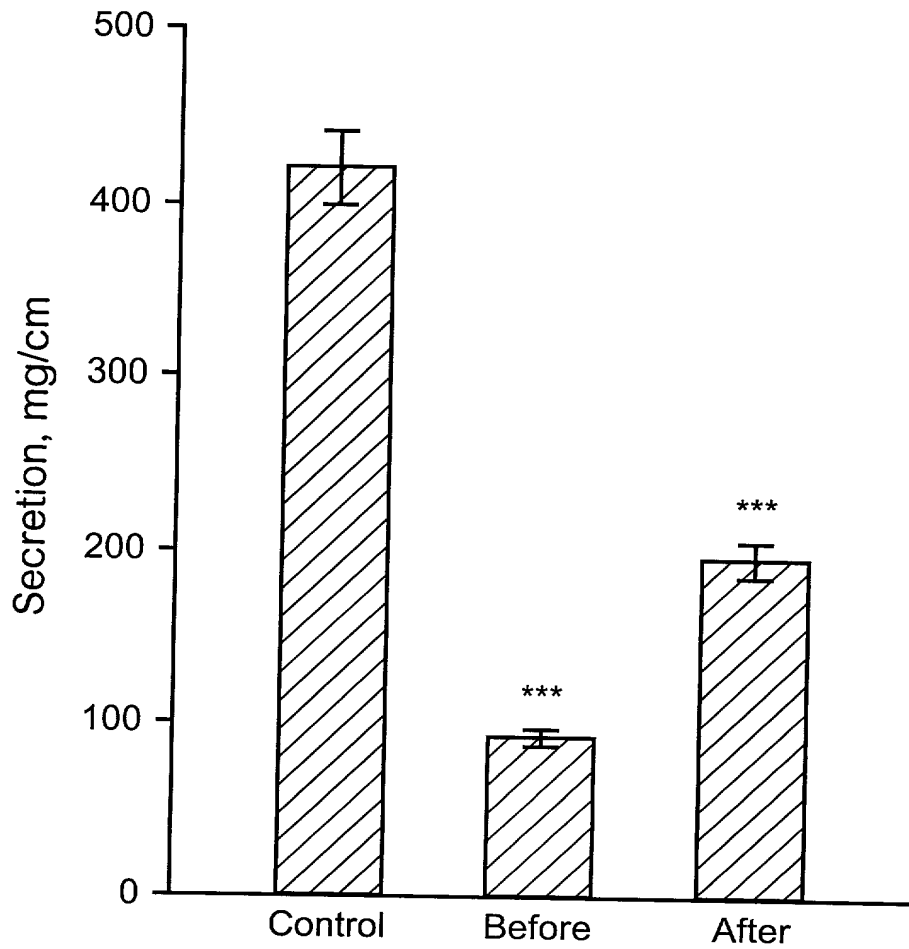


FIG. 7

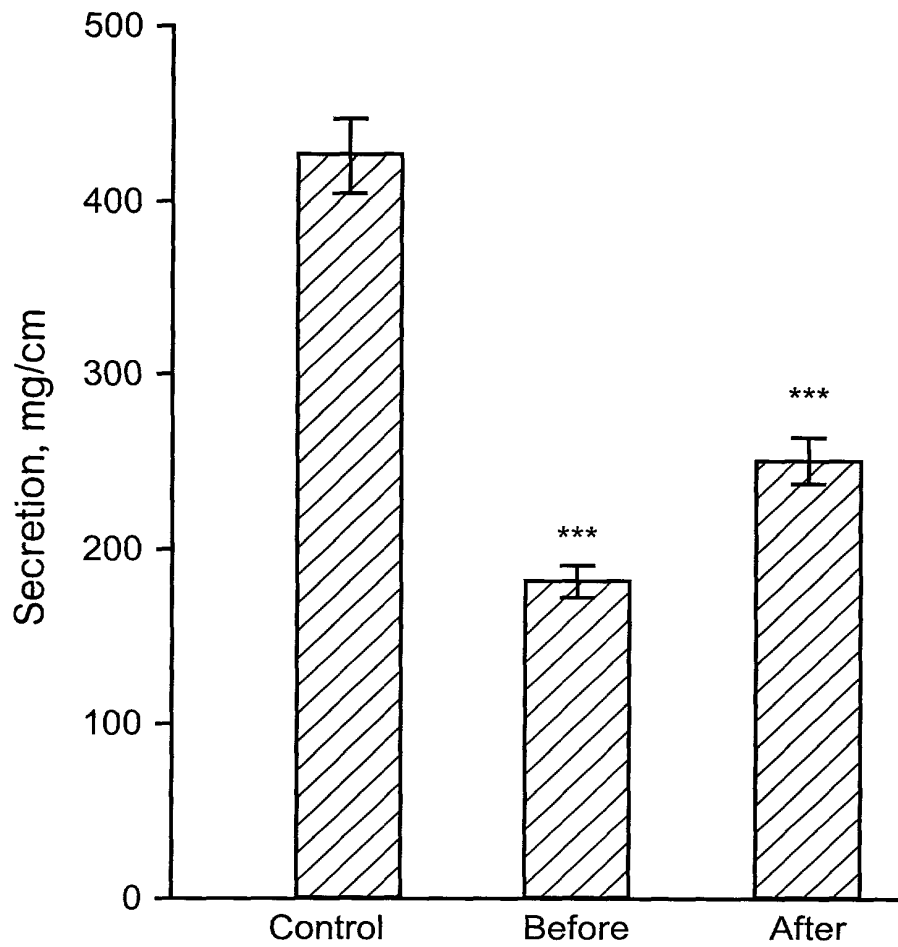
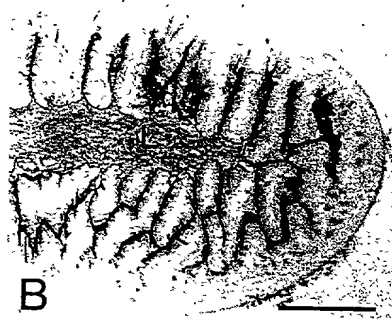


FIG. 8



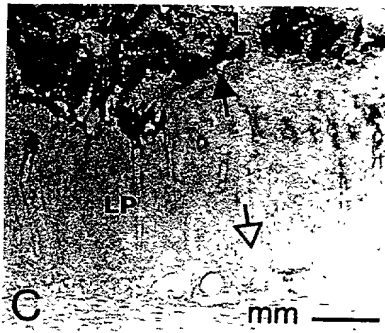
A

FIG. 9A



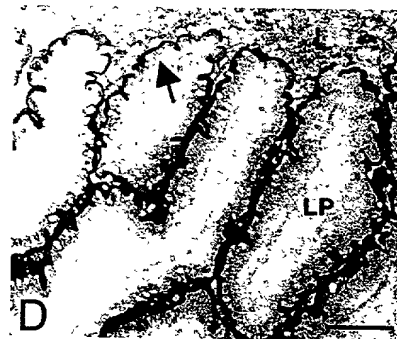
B

FIG. 9B



C

FIG. 9C



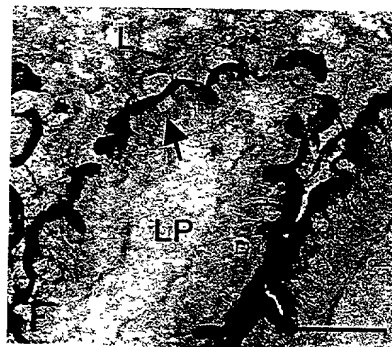
D

FIG. 9D



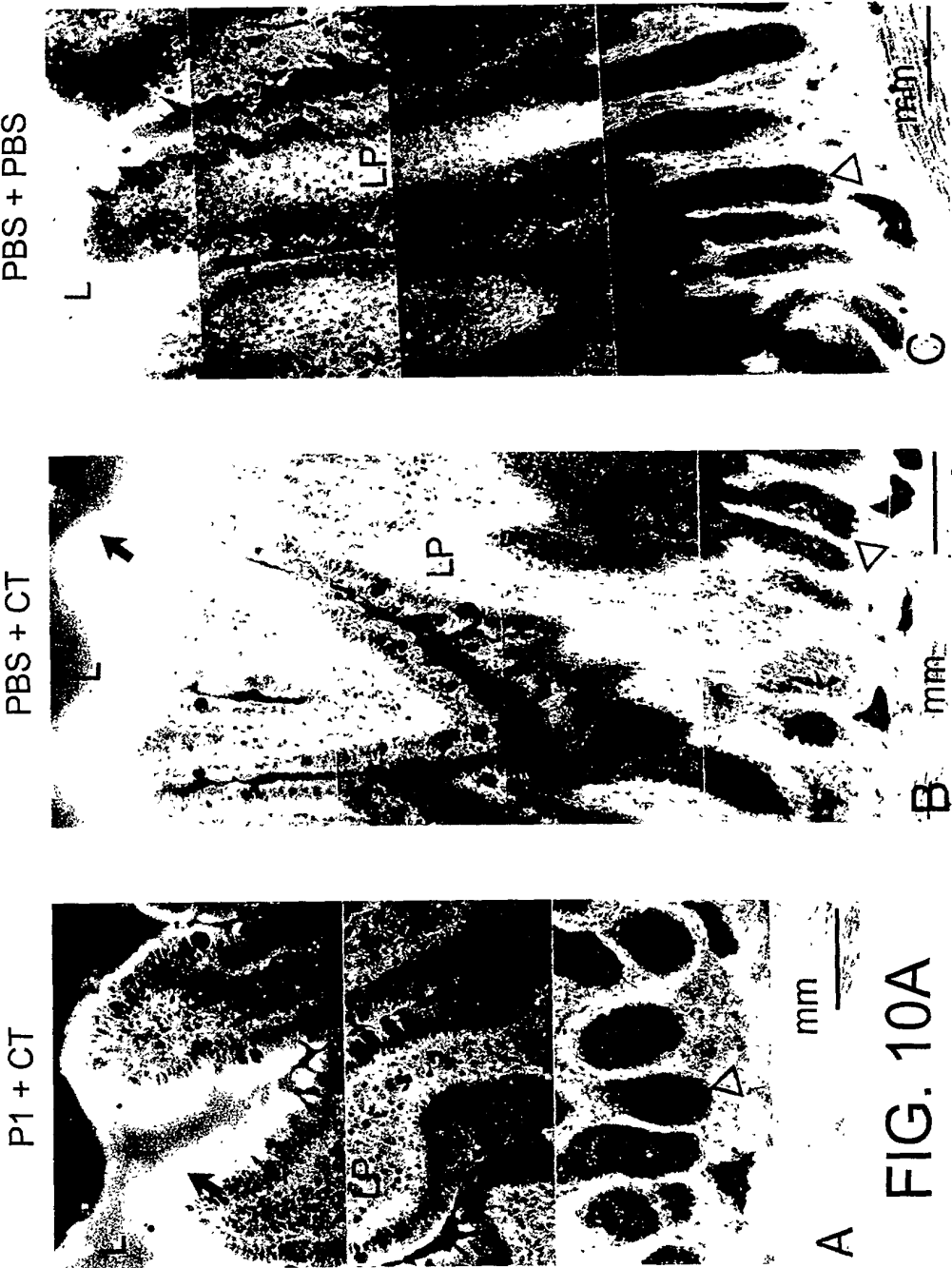
E

FIG. 9E



F

FIG. 9F



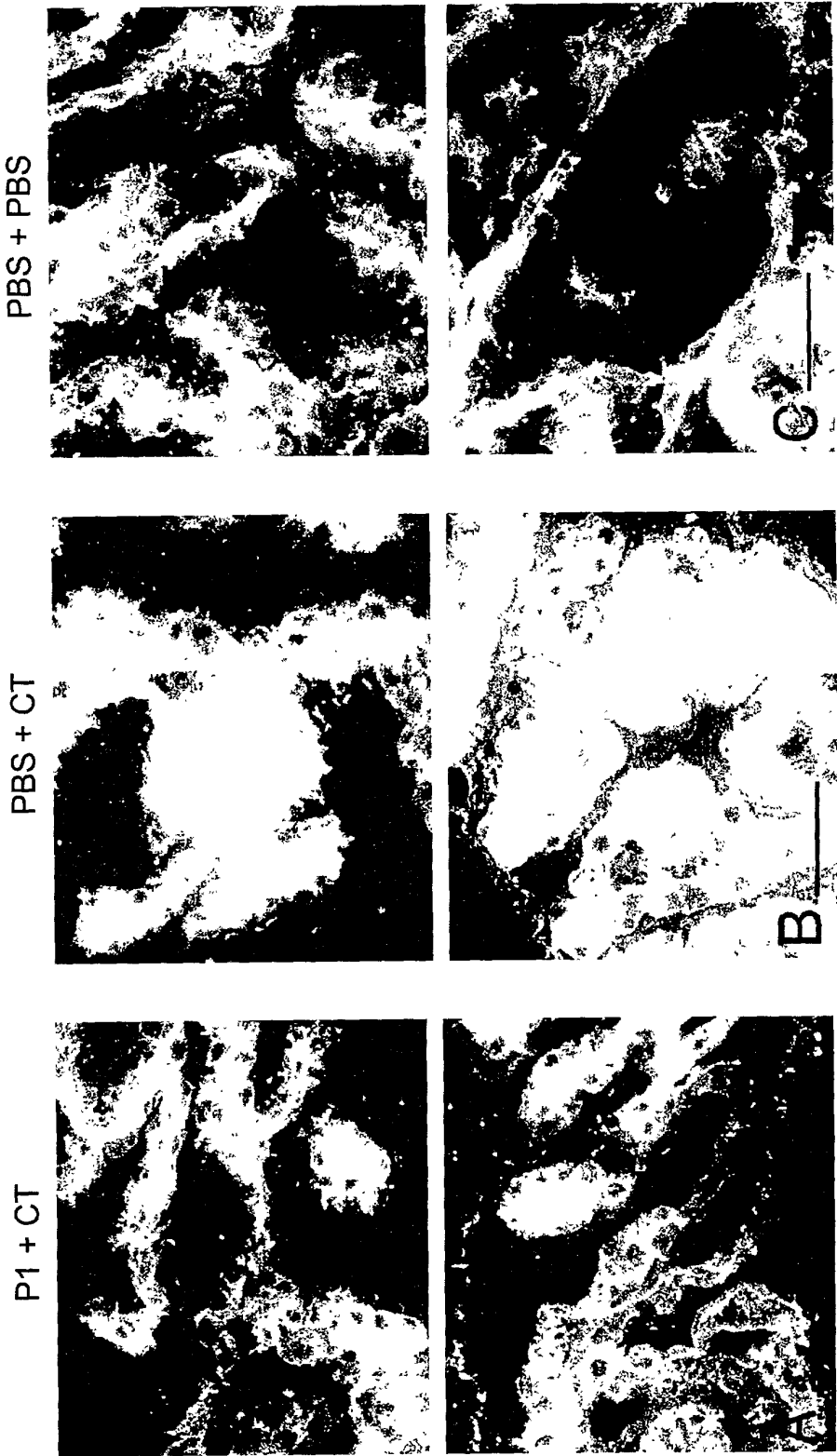


FIG. 11C

FIG. 11B

FIG. 11A